

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				o
					o
DWR ID	DWR_RD0404_01_s _ 2013_24				
Action/Comments					
Inspector Comments: The LMA has a copy of the O & M Manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD0404_01_s _ 2013_25				
Action/Comments					
Inspector Comments: LMA has adequate flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	26	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_RD0404_01_s _ 2013_26					
Action/Comments						
Inspector Comments: LMA staff are maintaining their flood fight training.						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.13	Rating **	M	Issue No.	31
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.940677 °	37.940677 °
				-121.343790 °	-121.343790 °
DWR ID	DWR_RD0404_01_s _ 2015_31				
Action/Comments					
Material Inspector Comments: Remove the large concrete blocks from landward slope.					

Photo 1 of 1 : FA\_2015\_RD0404\_305\_31\_20151019\_00029.jpg



Looking southeast at concrete blocks on landward slope.

LM Start	0.21	Rating **	C	Issue No.	1
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939480 °	37.939480 °
				-121.342730 °	-121.342730 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: The erosion has been repaired. 6/19/2014: No significant change observed. 08/13/2013: The boat survey found the erosion has progressed significantly in size and in number of pocket erosions. 08/07/2012: The site has been visited by boat survey. The erosion has developed in size, and more pocket erosions were found. 8/23/2011: Pockets erosions observed by last survey seem to have progressed during the last flood season. Continuous monitoring of this site suggested 9/07/2010: No significant change observed on site. There is emergent vegetation at the water line. Several pocket erosions lined along the lower slope that stretches from RM 40.86 to RM 41.14. 9/30/2009: No major change observed; the site was combined with other existing sites are RM's 40.93, 40.98, and 41.14 as one site; several pocket erosion just above non-uniform toe rip rap; previously rated "U"; bare spots along the upper slope. 2008: Possibly caused by wave wash erosion; several pocket erosion along the lower slope; site is inside of a bend. 2006: Visited site 09/12/06. [2015 Site ID:RD0404U01RM40.86]					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.34	Rating **	C	Issue No.	6
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939228 °	37.939228 °
				-121.340786 °	-121.340786 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: The erosion site has been repaired. Minor erosion is visible at the water edge. 06/19/2014: No significant change observed. 08/13/2013: The pocket erosion is located at immediately upstream of a small oak tree. [2015 Site ID:RD0404U01RM40.98]					

No Photos

LM Start	0.34	Rating **	U	Issue No.	9
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939190 °	37.939190 °
				-121.338280 °	-121.338280 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 8/7/2012: The erosion is next to a repaired site and approximately 400 feet downstream of a river bend. There are broken concretes at the upper levee slope, but not visible at the levee toe or lower slope. Likely					

Photo 1 of 2 : SJR2015\_RD0404U01RM41.11\_3.jpg



Close view of the site.

LM Start	<b>0.34</b>	Rating **	U	Issue No.	<b>9 (cont)</b>
LM End	<b>0.34</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015\_RD0404U01RM41.11\_5.jpg



A closer view of the site.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	5
LM End	0.43	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.939635 °	37.939635 °
				-121.339063 °	-121.339063 °
DWR ID	DWR_RD0404_01_s_2013_5				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: District grouted hole, and the deficiency still exist.					

Photo 1 of 4 : FA\_2015\_RD0404\_305\_5\_20150914\_00004.jpg



Looking at partialled grouted rodent hole on levee crown (Fall 2014).

LM Start	<b>0.43</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>0.43</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 4 : FA\_2015\_RD0404\_305\_5\_20150914\_00005.jpg



Looking at partially grouted rodent hole on levee crown

LM Start	<b>0.43</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>0.43</b>	Issue Type +	Ma	Location *	CR

Photo 3 of 4 : FA\_2015\_RD0404\_305\_5\_20150914\_00006.jpg



Looking at rodent hole on levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	5 (cont)
LM End	0.43	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.939635 °	37.939635 °
				-121.339063 °	-121.339063 °
DWR ID	DWR_RD0404_01_s_2013_5				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: District grouted hole, and the deficiency still exist.					

Photo 4 of 4 : FA\_2015\_RD0404\_305\_5\_20150914\_00007.jpg



Looking at one of several rodent holes on levee crown.

LM Start	0.45	Rating **	M	Issue No.	104
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.939627 °	37.939627 °
				-121.338808 °	-121.338808 °
DWR ID	DWR_RD0404_01_s_2012_104				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove bamboo on waterside toe. Bamboo is not within twenty feet zone, but should be removed to stop from spreading along waterward slope. Bamboo has increased in size.					

Photo 1 of 3 : FA\_2015\_RD0404\_305\_104\_20150914\_00022.jpg



Looking northwest at bamboo on waterside toe.

LM Start	<b>0.45</b>	Rating **	M	Issue No.	<b>104 (cont)</b>
LM End	<b>0.45</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA\_2015\_RD0404\_305\_104\_20150914\_00023.jpg



Looking west at bamboo on waterward slope. 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.45	Rating **	M	Issue No.	104 (cont)
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.939627 °	37.939627 °
				-121.338808 °	-121.338808 °
DWR ID	DWR_RD0404_01_s _ 2012_104				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove bamboo on waterside toe. Bamboo is not within twenty feet zone, but should be removed to stop from spreading along waterward slope. Bamboo has increased in size.					

Photo 3 of 3 : FA\_2015\_RD0404\_305\_104\_20150914\_00024.jpg



Looking southwest at bamboo on waterward slope and toe.

LM Start	0.59	Rating **	C	Issue No.	10
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939133 °	37.939133 °
				-121.336100 °	-121.336100 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: The erosion has been repaired. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The site was first discovered by levee inspector in the spring inspection. Levee slope was protected with broken concrete blocks, but those blocks have been washed away during high flows. [2015 Site ID:RD0404U01RM41.22]					

No Photos

LM Start	0.75	Rating **	M	Issue No.	7
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937758 °	37.937758 °
				-121.334149 °	-121.334149 °
DWR ID	DWR_RD0404_01_s _ 2012_7				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA\_2015\_RD0404\_305\_7\_20150914\_00008.jpg



Looking southeast at elderberry on landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	8
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.937395 °	37.937395 °
				-121.333883 °	-121.333883 °
DWR ID	DWR_RD0404_01_s _ 2013_8				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Trees are blocking view of the slope.					

Photo 1 of 1 : FA\_2015\_RD0404\_305\_8\_20150914\_00009.jpg



Looking southeast at dense trees on landward slope and toe.

LM Start	0.89	Rating **	M	Issue No.	17
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				°
					°
DWR ID	DWR_RD0404_01_f _ 2012_17				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	0.95	Rating **	M	Issue No.	2
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.935990 °	37.935990 °
				-121.331600 °	-121.331600 °
DWR ID	DWR_RD0404_01_s _ 2012_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberries are partially blocking the visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.07	Rating **	U	Issue No.	102
LM End	1.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935358 °	37.935358 °
				-121.329645 °	-121.329645 °
DWR ID	DWR_RD0404_01_s_2012_102				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA\_2015\_RD0404\_305\_102\_20151019\_00031.jpg



Looking northwest at untrimmed tree on waterward slope.

LM Start	1.09	Rating **	M	Issue No.	4
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.935158 °	37.935158 °
				-121.329365 °	-121.329365 °
DWR ID	DWR_RD0404_01_f_2013_4				
Action/Comments					
Inspector Comments: Concrete rubble with rebar should be removed.					

Photo 1 of 1 : FA\_2015\_RD0404\_305\_4\_20150914\_00003.jpg



Looking southwest at concrete rubble with rebar on waterward slope.

LM Start	1.19	Rating **	M	Issue No.	101
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.934058 °	37.934058 °
				-121.328188 °	-121.328188 °
DWR ID	DWR_RD0404_01_s_2012_101				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA\_2015\_RD0404\_305\_101\_20150914\_00021.jpg



Looking southeast at overhanging trees on landside slope.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.35	Rating **	M	Issue No.	100
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.931945 °	37.931945 °
				-121.327150 °	-121.327150 °
DWR ID	DWR_RD0404_01_s _ 2012_100				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.44	Rating **	M	Issue No.	11
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930450 °	37.930450 °
				-121.327450 °	-121.327450 °
DWR ID					
Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: A series of scarp erosions have been found on the lower levee slope and at the levee toe. [2015 Site ID:RD0404U01RM42.02]					

Photo 1 of 2 : SJR2015\_RD0404U01RM42.02\_1.JPG



Front view of the erosion.

LM Start	<b>1.44</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>1.46</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2015\_RD0404U01RM42.02\_3.JPG



Close view of the erosion. The upstream end of the site is protected by riprap revetment.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.70	Rating **	M	Issue No.	29
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927517 °	37.926632
				-121.325515 °	-121.324868
DWR ID	DWR_RD0404_01_s_2015_29				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA\_2015\_RD0404\_305\_29\_20150914\_00018.jpg



Looking east at untrimmed trees on waterward slope.

LM Start	2.01	Rating **	M	Issue No.	16
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability				°
					°
DWR ID	DWR_RD0404_01_f_2013_16				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: Slope damage due to foot traffic.					

Photo 1 of 2 : FA\_2015\_RD0404\_305\_16\_20150914\_00010.jpg



Looking west at slope damage due to foot traffic.

LM Start	<b>2.01</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>2.01</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2015\_RD0404\_305\_16\_20150914\_00011.jpg



Looking southwest at slope damage due to foot traffic.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	2.08	Rating **	M	Issue No.	13
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees				°
					°
DWR ID	DWR_RD0404_01_f_2012_13				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.21	Rating **	M	Issue No.	28
LM End	2.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.921458 °	37.921458 °
				-121.320502 °	-121.320502 °
DWR ID	DWR_RD0404_01_s_2015_28				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Landward slope erosion.					

Photo 1 of 2 : FA\_2015\_RD0404\_305\_28\_20150914\_00016.jpg



Looking east at erosion on landward slope.

LM Start	<b>2.21</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>2.21</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2015\_RD0404\_305\_28\_20150914\_00017.jpg



Looking west at erosion on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	2.35	10/15/2015 10/15/2015	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	23
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.920488 °	37.920338 °
				-121.318630 °	-121.318435 °
DWR ID	DWR_RD0404_01_s _ 2013_23				
Action/Comments					
Inspector Comments: Remove rebar from existing concrete rip rap on waterward slope.					

Photo 1 of 2 : FA\_2015\_RD0404\_305\_23\_20150914\_00014.jpg



Looking west at concrete rip rap with rebar. (Spring 2015)

LM Start	<b>2.33</b>	Rating **	M	Issue No.	<b>23 (cont)</b>
LM End	<b>2.35</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2015\_RD0404\_305\_23\_20150914\_00015.jpg



Looking southwest at concrete rip rap with rebar.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.35	Rating **	A/W	Issue No.	3
LM End	0.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918935 °	37.919543 °
				-121.313335 °	-121.311432 °
DWR ID	DWR_RD0404_02_s _ 2012_3				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Grouting program.					

No Photos

LM Start	0.48	Rating **	A/W	Issue No.	8
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919525 °	37.919525 °
				-121.311193 °	-121.311193 °
DWR ID	DWR_RD0404_02_s _ 2012_8				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Grouting program.					

No Photos

LM Start	0.51	Rating **	A/W	Issue No.	12
LM End	0.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.919528 °	37.919528 °
				-121.310635 °	-121.310635 °
DWR ID	DWR_RD0404_02_f _ 2012_12				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.82	Rating **	A/W	Issue No.	4
LM End	0.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918320 °	37.917162 °
				-121.305740 °	-121.305285 °
DWR ID	DWR_RD0404_02_s_2012_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.13	Rating **	M	Issue No.	67
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916337 °	37.916337 °
				-121.301888 °	-121.301888 °
DWR ID	DWR_RD0404_02_s_2012_67				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comments: Dense vegetation around propane tank inside fenced area.					

Photo 1 of 4 : FA\_2015\_RD0404\_306\_67\_20150914\_00007.jpg



Looking northeast at dense vegetation inside fenced area near pump station on landside toe.

LM Start	<b>1.13</b>	Rating **	M	Issue No.	<b>67 (cont)</b>
LM End	<b>1.13</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : FA\_2015\_RD0404\_306\_67\_20150914\_00008.jpg



Looking north at dense vegetation on landward toe around propane tank.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	67 (cont)
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916337 °	37.916337 °
				-121.301888 °	-121.301888 °
DWR ID	DWR_RD0404_02_s _ 2012_67				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comments: Dense vegetation around propane tank inside fenced area.					

Photo 3 of 4 : FA\_2015\_RD0404\_306\_67\_20150914\_00009.jpg



Looking northeast at dense vegetation on landward toe. (Spring 2013)

Photo 4 of 4 : FA\_2015\_RD0404\_306\_67\_20150914\_00010.jpg

LM Start	<b>1.13</b>	Rating **	M	Issue No.	<b>67 (cont)</b>
LM End	<b>1.13</b>	Issue Type +	Ma	Location *	LS



Looking east at dense vegetation near pump station on landside toe.

LM Start	1.13	Rating **	A/W	Issue No.	11
LM End	1.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.916347 °	37.916497 °
				-121.301887 °	-121.301095 °
DWR ID	DWR_RD0404_02_s _ 2012_11				
Action/Comments					
Exterminate rodents and backfill program and compact or grout burrows. Inspector Comments: Grouting program is being used.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	15
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916388 °	37.916388 °
				-121.301683 °	-121.301683 °
DWR ID	DWR_RD0404_02_s_2015_15				
Action/Comments					
Tree stumps.					
Inspector Comments: Remove dead stump.					

Photo 1 of 1 : FA\_2015\_RD0404\_306\_15\_20150914\_00005.jpg



Looking east at dead stump on landward toe.

LM Start	1.15	Rating **	A/W	Issue No.	13
LM End	1.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving				°
					°
DWR ID	DWR_RD0404_02_f_2013_13				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Landside erosion from equipment placement.					

Photo 1 of 1 : FA\_2015\_RD0404\_306\_13\_20150914\_00004.jpg



Looking southeast at dumpster and landside erosion on landward toe.

LM Start	1.23	Rating **	A/W	Issue No.	64
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.917042 °	37.917042 °
				-121.300400 °	-121.300400 °
DWR ID	DWR_RD0404_02_s_2012_64				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several rodent holes on waterside shoulder and slope. The District is grouting the holes.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.36	Rating **	A	Issue No.	10
LM End	1.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918214 °	37.918214 °
				-121.298656 °	-121.298656 °
DWR ID	DWR_RD0404_02_f_2012_10				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Grouting rodent holes					

Photo 1 of 1 : FA\_2015\_RD0404\_306\_10\_20150914\_00003.jpg



Looking southeast at typical grouted rodent holes on landward slope.

LM Start	1.51	Rating **	M	Issue No.	61
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918535 °	37.918535
				-121.295980 °	-121.295980
DWR ID	DWR_RD0404_02_s_2012_61				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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